

## ABSTRACT

The techniques described herein allow a more efficient transmuxing operation for transferring data from a synchronous domain (e.g., SONET) to a plesiochronous (e.g., PDH) domain as compared to the prior art, in which extraction of data streams, jitter filtering and stuff bit generation are processed separately. The techniques described herein include extraction of data from the plesiochronous data stream without complete extraction of the underlying native data stream. Filtering is performed based on synchronous timing, which results in a simpler filter design.